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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/773,897	02/01/2001	David H. Thibado	PHA 23,583B	8583
7	7590 07/18/2002			
Michael E. Marion			EXAMINER	
Corporate Patent Counsel U.S. Philips Corporation			NGUYEN, TUYEN T	
580 White Plains Road Tarrytown, NY 10591			ART UNIT	PAPER NUMBER
			2832	
			DATE MAILED: 07/18/2002)

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No. **09/773,897**

Applicant(s)

Thibado

Examiner

Tuyen T. Nguyen

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The MAILING DATE of this communication appears	on the cover sheet with the correspondence address			
Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.				
 Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In mailing date of this communication. 	no event, however, may a reply be timely filed after SIX (6) MONTHS from the			
 If the period for reply specified above is less than thirty (30) days, a reply within the lift NO period for reply is specified above, the maximum statutory period will apply a Failure to reply within the set or extended period for reply will, by statute, cause the lift Any reply received by the Office later than three months after the mailing date of the earned patent term adjustment. See 37 CFR 1.704(b). 	and will expire SIX (6) MONTHS from the mailing date of this communication. he application to become ABANDONED (35 U.S.C. § 133).			
Status				
1) Responsive to communication(s) filed on				
2a) ☐ This action is FINAL . 2b) ☒ This act	tion is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.				
Disposition of Claims				
4) X Claim(s) 1, 4-12, 15, and 16	is/are pending in the application.			
4a) Of the above, claim(s)	is/are withdrawn from consideration.			
5) Claim(s)	is/are allowed.			
6) 💢 Claim(s) <u>1, 4-12, 15, and 16</u>	is/are rejected.			
7) Claim(s)				
<u> </u>	are subject to restriction and/or election requirement.			
Application Papers				
9) 🗓 The specification is objected to by the Examiner.				
10) The drawing(s) filed on is/are	e a) \square accepted or b) \square objected to by the Examiner.			
Applicant may not request that any objection to the d				
	is: a) □ approved b) □ disapproved by the Examiner.			
If approved, corrected drawings are required in reply				
12) The oath or declaration is objected to by the Exami	iner.			
Priority under 35 U.S.C. §§ 119 and 120				
13) Acknowledgement is made of a claim for foreign per	riority under 35 U.S.C. § 119(a)-(d) or (f).			
a) \square All b) \square Some* c) \square None of:				
1. \square Certified copies of the priority documents hav	e been received.			
2. Certified copies of the priority documents have	e been received in Application No			
3. Copies of the certified copies of the priority de application from the International Bure	au (PCT Rule 17.2(a)).			
*See the attached detailed Office action for a list of the				
14) Acknowledgement is made of a claim for domestic				
a) ☐ The translation of the foreign language provisional 15) ☐ Acknowledgement is made of a claim for domestic	* *			
15) ☐ Acknowledgement is made of a claim for domestic Attachment(s)	priority under 35 U.S.C. 99 120 and/or 121.			
1) X Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper No(s).			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application (PTO-152)			
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6) Other:				

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DETAILED ACTION

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Specification

1. The disclosure is objected to because of the following informalities:

- Applicant should list the related applications and co-pending applications.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1, 4-12 and 15-16 are rejected under 35 U.S.C. 112, second paragraph, as being

indefinite for failing to particularly point out and distinctly claim the subject matter which applicant

regards as the invention.

Regarding claim 1, there lacks sufficient structure to support the functional language of "the

coil extending between a plurality of the for pick-up using a vacuum probe of a head of a pick-and-

place machine, and adapted for adjusting a position of the loops of the coils... after the coil is

attached to a circuit board." There no antecedent basis for "the coils." In line 11, does applicant

intend the "a circuit board" to be the same as "a circuit board" cited in line 4? Claims 4-12 and 15-

16 inherit the defect of the parent claim.

Regarding claim 4, there lacks sufficient structure to support the functional language of the surface includes a portion which *can be removed* from the wire coil.

Regarding claim 5, applicant should clarify what is intended by "the surface does not extend between all of the loops of the coil." There lacks sufficient structure to support the functional language of "...can be changed by bending the coil.."

Regarding claim 6, there lacks sufficient structure to support the functional language of "which the surface extends *can be easily bent* to adjust a position of the loops..."

Regarding claim 7, there lacks sufficient structure to support the functional language of "in which the surface is degraded by exposure to a solvent that *can be used* to wash the circuit board after the board is connected to the circuit board." The phrase "whereby" is indefinite because it has been held that the functional "whereby" statement does not define any structure and accordingly can not serve to distinguish. *In re Mason*, 114 USPQ 127, 44 CCPA 937 (1957). There lacks sufficient structure to support the functional language of "the loops *can be bent* to adjust a position of the loops …"

Regarding claim 8, there lacks sufficient structure to support the functional language of "the surface is degraded by exposing the surface to water and at least a portion of a material of the surface can be removed by washing in water ..."

Regarding claim 9, there lacks sufficient structure to support the functional language of "there surface is degraded by heating the circuit board *after* which the separation between the loops

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can be changed by bending the loops..." There no antecedent basis for "the separation between the

loops."

Regarding claim 10, there lacks sufficient structure to support the functional language of "the

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material of the surface flows...so that after heating the circuit board to reflow the solder at least some

of the loops become bendable ..."

Regarding claim 11, there lacks sufficient structure to support the functional language of "the

material of the surface sublimates ... so that after reflow soldering the circuit board at least some of

the loops become bendable.."

Regarding claim 12, there lacks sufficient structure to support the functional language of

"...so that it can be easily cut between loops of the coil using a tool without... and then a position of

the loops of the coil can be adjust..."

Claim 15 lacks sufficient structure to support the functional language of the claimed method

steps.

Regarding claim 16, applicant should clarify the spacing arrangement of "the coils."

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1, 4-12 and 15-16, as best understood in view of the rejection under 112 second paragraph, are rejected under 35 U.S.C. 103(a) as being unpatentable over Bernstein [US 4,866,573] in view of Huettlinger [DE 3615307 A1]

Bernstein discloses a surface mounted electronic package comprising:

- a printed circuit board [15];
- a coil structure [1] including one or more coil of wire [2] bent into a plurality of sequential loops; and
- a plurality of terminals [3, 4, 5, 6, 7, 8] for attaching the coil structure to the printed circuit board.

Bernstein discloses the instant claimed invention except for pick-up means.

Huettlinger discloses a surface mounted induction coil [10] comprising:

- a coil of wire bent into a plurality of sequential loops;
- terminals [12, 13]; and
- a silicon layer [11] disposed on the top surface of the induction coil.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to include a pick-up means on the coil structure of Bernstein, as suggested by Huettlinger, for the purpose of facilitating manufacturing.

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Tuyen T. Nguyen whose telephone number is (703) 308-0821.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Elvin Enad, can be reached at (703) 308-7619. The fax number for this Group is (703)872-9318 before the final office action, if the response is after final office action the fax number is (703)872-9319.

Any inquiry of a general nature or relating to status of this application of proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

TTN 11N

July 12, 2002

Trugher T. Ngrugher

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